

Attorney Docket No.: RTS-0335
Inventors: Kenneth W. Dobie
Serial No.: 10/006,972
Filing Date: December 4, 2001
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding phospholipid scramblase 3, wherein said compound specifically hybridizes with said nucleic acid molecule encoding phospholipid scramblase 3 and inhibits the expression of phospholipid scramblase 3.

Claim 2 (original): The compound of claim 1 which is an antisense oligonucleotide.

Claim 3 (canceled).

Claim 4 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.

Claim 5 (original): The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothioate linkage.

Claim 6 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.

Claim 7 (original): The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.

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Claim 8 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

Claim 9 (original): The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.

Claim 10 (original): The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.

Claim 11 (original): A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding phospholipid scramblase 3.

Claim 12 (original): A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

Claim 13 (original): The composition of claim 12 further comprising a colloidal dispersion system.

Claim 14 (original): The composition of claim 12 wherein the compound is an antisense oligonucleotide.

Claim 15 (original): A method of inhibiting the expression of phospholipid scramblase 3 in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of phospholipid scramblase 3 is inhibited.

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Claim 16 (original): A method of treating an animal having a disease or condition associated with phospholipid scramblase 3 comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of phospholipid scramblase 3 is inhibited.

Claim 17 (original): The method of claim 16 wherein the disease or condition is a hyperproliferative disorder.

Claim 18 (original): The method of claim 16 wherein the disease or condition is an autoimmune disorder.

Claim 19 (original): The compound of claim 1 targeted to a nucleic acid molecule encoding phospholipid scramblase 3, wherein said compound specifically hybridizes with and differentially inhibits the expression of one of the variants of phospholipid scramblase 3 relative to the remaining variants of phospholipid scramblase 3.

Claim 20 (original): The compound of claim 19 targeted to a nucleic acid molecule encoding phospholipid scramblase 3, wherein said compound hybridizes with and specifically inhibits the expression of a variant of phospholipid scramblase 3, wherein said variant is selected from the group consisting of PLSCR3A, PLSCR3B, PLSCR3C, PLSCR3D and PLSCR3E.